

Title (en)
METHOD FOR WELDING POROUS MEMBRANES

Title (de)
VERFAHREN ZUM VERSCHWEIßEN VON PORÖSEN MEMBRANEN

Title (fr)
PROCÉDÉ DE SOUDAGE DE MEMBRANES POREUSES

Publication
EP 3675675 A1 20200708 (DE)

Application
EP 18758899 A 20180830

Priority
• EP 17189070 A 20170901
• EP 2018073352 W 20180830

Abstract (en)
[origin: WO2019043100A1] The invention relates to a method for welding porous membranes, comprising: i) providing a porous membrane and a planar carrier material; ii) at least partially overlaying the porous membrane and the planar carrier material according to i) to obtain an at least partial overlay region; iii) welding the porous membrane and the carrier material at least in a portion of the overlay region according to ii) at a temperature in the range of 100 to 300 °C to obtain an at least partially welded composite of the porous membrane and the planar carrier material, wherein the planar carrier material comprises a second porous membrane, the material of the second porous membrane comprises a thermoplastic elastomer, selected from the group consisting of polyurethane, polyester, polyether ester, polyester ester, polyamide, polyether amide, polystyrene, and ethylene vinyl acetate elastomers and mixtures of two or more of these elastomers. The invention further relates to a welded composite of a porous membrane and a carrier material, obtained or obtainable by the method according to the invention, and to the use of a welded composite to produce an article selected from the group consisting of clothing, shoes, boots, protective suits, tents and tarps.

IPC 8 full level
A43B 17/00 (2006.01); **B29C 65/00** (2006.01); **B29D 99/00** (2010.01); **B32B 37/00** (2006.01); **B32B 37/06** (2006.01)

CPC (source: EP US)
A43B 7/125 (2013.01 - EP US); **B29C 65/02** (2013.01 - EP); **B29C 65/38** (2013.01 - US); **B29C 65/8253** (2013.01 - EP US); **B29C 66/00141** (2013.01 - US); **B29C 66/1122** (2013.01 - EP US); **B29C 66/43** (2013.01 - EP); **B29C 66/71** (2013.01 - EP US); **B29C 66/727** (2013.01 - EP US); **B29C 66/7352** (2013.01 - US); **B29C 66/919** (2013.01 - EP US); **B29C 66/949** (2013.01 - US); **B29D 99/005** (2013.01 - EP US); **B32B 25/042** (2013.01 - US); **B32B 25/14** (2013.01 - US); **B32B 37/0076** (2013.01 - EP); **B32B 37/06** (2013.01 - EP); **B29C 65/38** (2013.01 - EP); **B29C 66/0014** (2013.01 - EP); **B29C 66/00141** (2013.01 - EP); **B29C 66/45** (2013.01 - EP); **B29C 66/7352** (2013.01 - EP); **B29C 66/939** (2013.01 - EP); **B29C 66/949** (2013.01 - EP); **B29L 2007/005** (2013.01 - EP US); **B29L 2031/48** (2013.01 - EP); **B29L 2031/50** (2013.01 - EP); **B29L 2031/501** (2013.01 - EP US); **B32B 2307/724** (2013.01 - US); **B32B 2437/00** (2013.01 - US)

Citation (search report)
See references of WO 2019043100A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2019043100 A1 20190307; CN 111065290 A 20200424; EP 3675675 A1 20200708; US 11752702 B2 20230912; US 2020353697 A1 20201112

DOCDB simple family (application)
EP 2018073352 W 20180830; CN 201880055957 A 20180830; EP 18758899 A 20180830; US 201816640505 A 20180830